

**Date:** November 24, 2014

**To:** Thomas J. Bonfield, City Manager  
**Through:** W. Bowman Ferguson, Deputy City Manager  
**From:** Marvin G. Williams, Director of Public Works  
**Subject:** Presentation – Pavement Condition Study Findings

### **Executive Summary**

In April 2013, Public Works contracted with Transmap Corporation (Transmap) to provide consulting services for a Pavement Condition Index (PCI) Study of the City of Durham's (City) maintained asphalt streets as well as a condition assessment of the sidewalks along those streets. Transmap completed the field work associated with this study in October 2013 and completed the analysis of the data in January 2014. This presentation is intended to provide an overview to the City Council and City Administration of the current condition of the City's street network, and the estimated costs that will be associated with maintaining the street network over the next several years.

### **Recommendation**

The Public Works Department recommends that Council receive a presentation regarding the findings of the PCI Study completed by Transmap. The presentation will include a review of the City's pavement conditions and recommended funding options to maintain a proposed overall PCI rating of 55 or 65 out of 100 for local streets and 70 or 75 out of 100 for arterial streets.

### **Background**

In an effort to generate a multi-year paving plan, the Public Works Department contracted with Transmap Corporation of Upper Arlington, Ohio to conduct a Pavement Condition Index (PCI) Study of the City maintained asphalt streets. The scope of the study included a report of the existing pavement conditions for City maintained streets, the development of pavement deterioration models using several funding scenarios over a 5-year and 10-year period and the identification of various maintenance and rehabilitation approaches for the City's street network.

Public Works has worked with Transmap over the past several months to identify the most appropriate PCI rating for the City's street network by reviewing the current and proposed PCI levels of various cities that are similar in population, street lane miles and traffic volume to Durham. However, each city that Transmap used as a comparison to Durham has a unique street network with various pavement types and approaches to street preservation and rehabilitation.

**Issues/Analysis**

The Issues/Analysis section is not applicable for this item.

**Alternatives**

The Alternatives section is not applicable for this item.

**Financial Impact**

The Financial Impact section is not applicable for this item.

**SDBE Summary**

The SDBE Summary is not applicable for this item.